



Performance Data Sheet

VSC5554BNA

General Information

Model	VSC5554BNA	Refrigerant	R-410A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	17400	15000					
	Watts	2970	3230					
	Amps	13.0	14.8					
	Lb/h	211	190					
-10	Btu/h	21100	18700	16300				
	Watts	3000	3270	3630				
	Amps	13.0	14.7	16.7				
	Lb/h	254	235	217				
-5	Btu/h	24900	22400	20100	17700			
	Watts	3020	3300	3660	4120			
	Amps	12.9	14.7	16.6	18.9			
	Lb/h	297	280	264	246			
0	Btu/h	28800	26200	23800	21400	18700		
	Watts	3030	3320	3690	4140	4700		
	Amps	12.9	14.6	16.5	18.8	21.5		
	Lb/h	341	326	311	295	274		
5	Btu/h	32800	30200	27700	25200	22400		
	Watts	3020	3330	3700	4160	4710		
	Amps	12.9	14.6	16.5	18.7	21.3		
	Lb/h	386	372	359	344	325		
10	Btu/h	37000	34300	31700	29100	26200	23000	19200
	Watts	3010	3320	3700	4160	4710	5360	6120
	Amps	12.8	14.5	16.4	18.6	21.1	24.2	27.8
	Lb/h	432	420	408	395	377	352	317
15	Btu/h	41400	38600	35900	33100	30100	26700	22800
	Watts	2980	3310	3700	4160	4700	5340	6090
	Amps	12.7	14.4	16.3	18.4	21.0	24.0	27.6
	Lb/h	481	469	459	447	431	407	373
20	Btu/h	46200	43200	40400	37400	34200	30700	26600
	Watts	2940	3280	3680	4140	4690	5320	6060
	Amps	12.6	14.3	16.2	18.3	20.8	23.8	27.3
	Lb/h	533	522	513	502	486	464	431

25	Btu/h	51300	48200	45100	42000	38600	34800	30500
	Watts	2890	3250	3650	4120	4670	5290	6020
	Amps	12.5	14.2	16.1	18.2	20.7	23.7	27.1
	Lb/h	588	578	569	559	545	523	492
30	Btu/h	56700	53400	50200	46800	43200	39200	34700
	Watts	2830	3200	3620	4100	4640	5260	5970
	Amps	12.4	14.1	15.9	18.1	20.6	23.5	26.9
	Lb/h	647	637	629	620	606	585	555
35	Btu/h	62600	59100	55600	52100	48200	43900	39100
	Watts	2770	3160	3590	4070	4610	5220	5920
	Amps	12.2	13.9	15.8	18.0	20.4	23.3	26.8
	Lb/h	710	701	694	685	671	651	621
40	Btu/h	69000	65300	61500	57700	53600	49000	43900
	Watts	2700	3100	3540	4030	4570	5180	5870
	Amps	12.0	13.8	15.7	17.8	20.3	23.2	26.6
	Lb/h	779	770	763	754	741	722	692
45	Btu/h	75900	71900	67900	63800	59300	54500	49100
	Watts	2620	3050	3500	3990	4530	5140	5820
	Amps	11.8	13.6	15.5	17.7	20.2	23.0	26.4
	Lb/h	853	844	837	829	816	796	767
50	Btu/h	83400	79100	74800	70400	65600	60400	54700
	Watts	2550	2990	3450	3950	4500	5100	5770
	Amps	11.5	13.4	15.3	17.5	20.0	22.9	26.3
	Lb/h	934	925	917	909	896	877	848
55	Btu/h	91500	86900	82300	77500	72400	66900	60700
	Watts	2470	2930	3400	3910	4460	5060	5720
	Amps	11.2	13.1	15.1	17.3	19.9	22.8	26.1
	Lb/h	1020	1010	1000	995	983	963	934

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.044984E+04	1.957012E+03	-3.313509E+00	8.379459E+02
C2	7.971590E+02	-5.794180E+01	-5.171107E-02	6.812528E+00
C3	-9.382562E+02	1.396413E+01	3.401237E-01	-1.372944E+01
C4	6.911181E+00	-3.532614E-01	-1.295212E-03	5.223078E-02
C5	6.931492E-01	1.147882E+00	1.350328E-03	1.977304E-02
C6	7.190824E+00	-1.678679E-01	-2.919623E-03	1.314602E-01
C7	6.330536E-02	1.421375E-03	-2.133683E-06	7.638059E-04
C8	-4.933418E-02	1.123216E-03	1.254087E-05	-3.707833E-04
C9	-1.043862E-02	-5.309077E-03	-1.0003532E-05	6.671206E-05
C10	-2.470130E-02	2.014446E-03	1.504711E-05	-4.683787E-04

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature